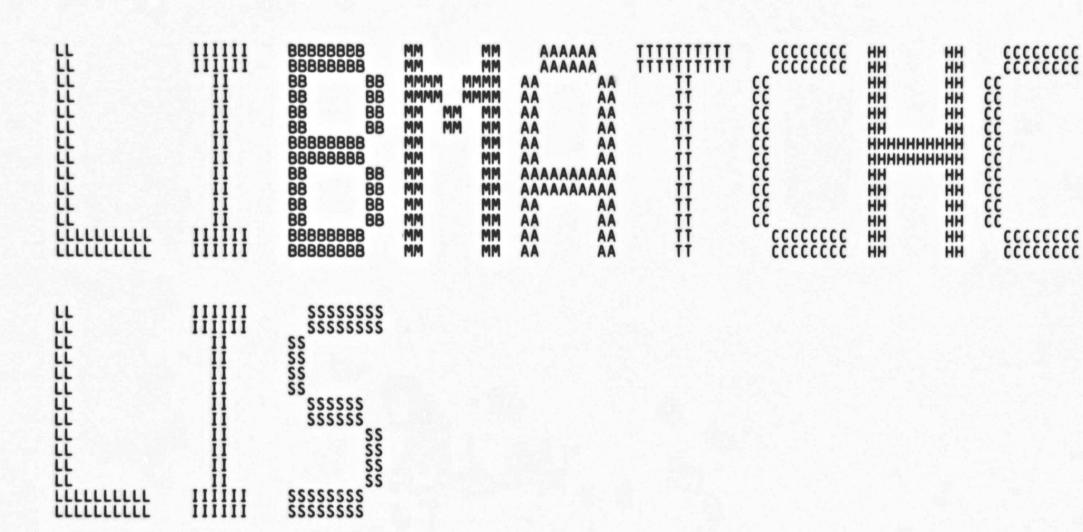
		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
LLL	HH				
LLL	III	BBB BBB BBB	RRR RRR	111	iii
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	1111111111	BBBBBBBBBBB	RRR RRR	TTT	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL		88888888888 88888888888	RRR RRR	III	

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Ph In Co Pa Sya Sy Ps Cr As Th 13

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J 9 LIBSMATCHC Table of contents - Match Character 16-SEP-1984 00:13:42 VAX/VMS Macro V04-00 Page 0 (2) 61 DECLARATIONS LIBSMATCHC - match characters

LIB\$MATCHC - Match Character /1-007/ ; File: LIBMATCHC.MAR Edit: RKR1007

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; FACILITY: General Utility Library

K 9

.TITLE

ABSTRACT:

search a string for the first occurrence of a substring

ENVIRONMENT: User Mode, AST Reentrant

AUTHOR: Donald G. Petersen, CREATION DATE: 03-Jan-78

MODIFIED BY:

DGP, 03-Jan-78 : VERSION 00

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444901234567

- Match Character

16-SEP-1984 00:13:42 VAX/VMS Macro V04-00 6-SEP-1984 11:09:07 [LIBRTL.SRC]LIBMATCHC.MAR;1

0000 58: 1-007 - Correct computation of matched position -- corrupted in edits 6000 59: 4 through 6. RKR 18-DEC-1981

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L!

LIBSMATCHC 1-007

```
LIBSMATCHC
1-007
                                                     - Match Character
                                                                                                                                                              VAX/VMS Macro V04-00 [LIBRTL.SRC]LIBMATCHC.MAR; 1
                                                     LIBSMATCHC - match characters
                                                                                              .SBTTL LIBSMATCHC - match characters
                                                                         8901234567899011034567
                                                                                  FUNCTIONAL DESCRIPTION:
                                                                                            The character string supplied is searched for the first incidence of the substring specified. An index is returned which is the relative position of the first character of the substring within the string or zero if no occurrence of the substring was encountered. If both strings have zero length or if the substring has a zero length, then the routine returns as if the substring has been found at the first character position. If the source string has a zero length and the substring a pon-zero length them a zero is
                                                                                              length and the substring a non-zero length, then a zero is
                                                                                             returned.
                                                                                   CALLING SEQUENCE:
                                                                                             index.wlu.v = LIB$MATCHC(sub_str.rt.dx,string.rt.dx)
                                                                                   INPUT PARAMETERS:
                                             00000004
                                                                                             sub_string = 4
                                                                                                                                                                ; Adr of substring desc
                                             00000008
                                                                                             src_string = 8
                                                                                                                                                                ; Adr of src string desc
                                                                                   IMPLICIT INPUTS:
                                                                                             NONE
                                                                                   OUTPUT PARAMETERS:
                                                                                             NONE
                                                                                   IMPLICIT OUTPUTS:
                                                                                             NONE
                                                                                   FUNCTION VALUE:
                                                                                             index.wlu.v - Position of substring in source, or zero
                                                                                                                     if no match.
                                                                         131
133
133
135
137
138
139
141
142
143
                                                                                   SIDE EFFECTS:
                                                                                             NONE
                                                   007C
                                                                                             .ENTRY LIBSMATCHC , M<R2, R3, R4, R5, R6> ; Entry point
                                                      91
1A
7D
                                                                                                          SUB_STRING(AP), RO : Address of sub_string desc
DSC$B_CLASS(RO), #DSC$K_CLASS_D : read like fixed ?
                                              AC
A0
06
                                                                                                                                                      Address of sub_string descr.
                                                             0006
000A
000C
0010
                                                                                             CMPB
                                                                                             BGTRU
                                                                                                          aSUB_STRING(AP), R4
                                              BC
                                 54
                                         04
                                                                                             MOVQ
                                                                                                                                                       lenght->R4, address->R5
                                                                                             BRB
                                                                                                                                                      join common flow
                                                             0012
                               00000000 GF
                                                       16
                                                                                             JSB
                                                                                                          G^LIB$ANALYZE_SDESC_R2 ; Extract: length->R1, addr->R2
```

				- Ma	tch Charact MATCHC - n	er natch cha	racters	B 10 16-SEP 6-SEP	-1984 00:13:46 -1984 11:09:0	2 VAX/VMS Macro V04-00 CLIBRTL.SRCJLIBMATCHC.MAR; 1	Page	(3)
		54	51 52	3C 00	0018 146 001B 147		MOVZWL MOVL	R1, R4 R2, R5	; sa	ve sub_string length ve sub_string address		
	50 02 51	08 03 08	AC A0 06 BC 06	00 91 1A 7D 11	001E 148 001E 149 0022 150 0026 151 0028 152 002C 153	2\$:	MOVL CMPB BGTRU MOVQ BRB	SRC_STRING(AP), DSC\$B_CLASS(RO) 3\$ asrc_string(AP) 4\$, #DSC\$K_CLASS ; no , R1 ; ler	dress of src_string descr. S_D ; read like fixed ? ngth->R1, address->R2 in commmon flow		
	000	00000	GF 51	16 30	002E 155 0034 156 0037 157	3\$: 4\$:	JSB MOVZWL	G^LIB\$ANALYZE_S	DESC_R2 ; Ext	tract: length->R1, addr->R2 we src_string length		
62	51	65	54	39	0037 158 0037 158 003C 169 003C 169 003C 169 003C 169 003C 169 003C 169 003C 177 003C 177 003C 177 003C 177 003C 177 003C 177 003C 177 003C 177		MATCHC	R4, (R5), R1, (R1 = If main one by string else is bytes string else is a	tch occurred, the address of yte beyond the object g, address of the object string tch occurred, the number of remaining at the source g after the match, occurred, the address of yte beyond the last byte		
	50	56	0D 54	12 A3	003E 179		BNEQ SUBW3	NOMATCH R4, R6, R0	; No match? ; RO = diff.	in string lengths.		
		50 50	50 52	30	0042 181 0045 182 0048 183		MOVZWL SUBL	RO, RO R2, RO	: Subtract by	non-neg else no match. ytes left in source string		
			50	D6 04	0048 184 004A 185		INCL	RO	; giving offs; one origin	set into source.		
			50	04 04	004B 187 004B 187 004B 188 004D 189 004E 190	NOMATCH	CLRL RET .END	RO	; Indicate no	match		

LIBSMATCHC 1-007

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T

Macro library statistics !

Macro Library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:LIBMATCHC/OBJ=OBJ\$:LIBMATCHC MSRC\$:LIBMATCHC/UPDATE=(ENH\$:LIBMATCHC)

0208 AH-BT13A-SE

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